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Method for Generating XSLT Documents from Multiple Versions of a UML
Model or XML Schemas Created from Multiple Versions of a UML Model

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START

202 — RETRIEVE TWO UML MODEL OR XML SCHEMA DOCUMENTS FOR NEWER AND OLDER VERSIONS OF PRODUCT

204 — PROCESS TWO UML MODEL OR XML SCHEMA DOCUMENTS THROUGH DIFFERENCE TOOL

206 — IDENTIFY CHANGES MADE TO OLDER UML MODEL OR XML SCHEMA DOCUMENT BY NEWER UML MODEL OR XML SCHEMA DOCUMENT

208 — GENERATE XSL TEMPLATE-MATCH FRAGMENT FOR EACH FEATURE-ADDED CHANGE IDENTIFIED

210 — USE EACH XSL TEMPLATE-MATCH FRAGMENT TO FILTER CORRESPONDING CONFIGURATION SETTINGS FROM XML DOCUMENT IN NEWER SCHEMA FORMAT

212 — USE EACH XSL TEMPLATE-MATCH FRAGMENT TO ADD CONFIGURATION SETTING(S) AND DEFAULT VALUE(S) TO OLDER DOCUMENT

214 — TRANSFORM DOCUMENT IN OLDER SCHEMA FORMAT TO NEWER SCHEMA FORMAT BY ADDING NEW ATTRIBUTE VALUES FOR ATTRIBUTES ADDED TO UML MODEL

STOP

FIG. 2

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FIG. 1

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```
<?xml version="1.0" encoding="ASCII"?>
<xmi:XMI xmi:version="2.0" xmlns:xmi="http://www.omg.org/XMI"
xmlns:SchemaCmp="http:///SchemaCmp.ecore">
    <SchemaCmp:Package name="activitysessionservice" since="6.0.0"/>
    <SchemaCmp:Package name="appdeployment">
        <types name="EJBDeployment" since="6.0.0"/>
        <types name="EJBModuleDeployment">
            <attributes name="ejbDeployments" since="6.0.0"/>
        </types>
    </SchemaCmp:Package>
    <SchemaCmp:Package name="applicationserver.ejbcontainer.messagelistener">
        <types name="MessageListenerService">
            <attributes name="maxMDBListenerRetries" since="6.0.0"/>
            <attributes name="mdbListenerRecoveryInterval" since="6.0.0"/>
            <attributes name="mqJMSPoolingTimeout" since="6.0.0"/>
            <attributes name="mqJMSPoolingThreshold" since="6.0.0"/>
        </types>
    </SchemaCmp:Package>
    ...
    <SchemaCmp:Package name="resources">
        <types name="ConnectionTest" since="6.0.0"/>
        <types name="ConnectionFactory">
            <attributes name="logMissingTransactionContext" since="6.0.0"/>
            <attributes name="manageCachedHandles" since="6.0.0"/>
            <attributes name="preTestConfig" since="6.0.0"/>
        </types>
</xmi:XMI>
```
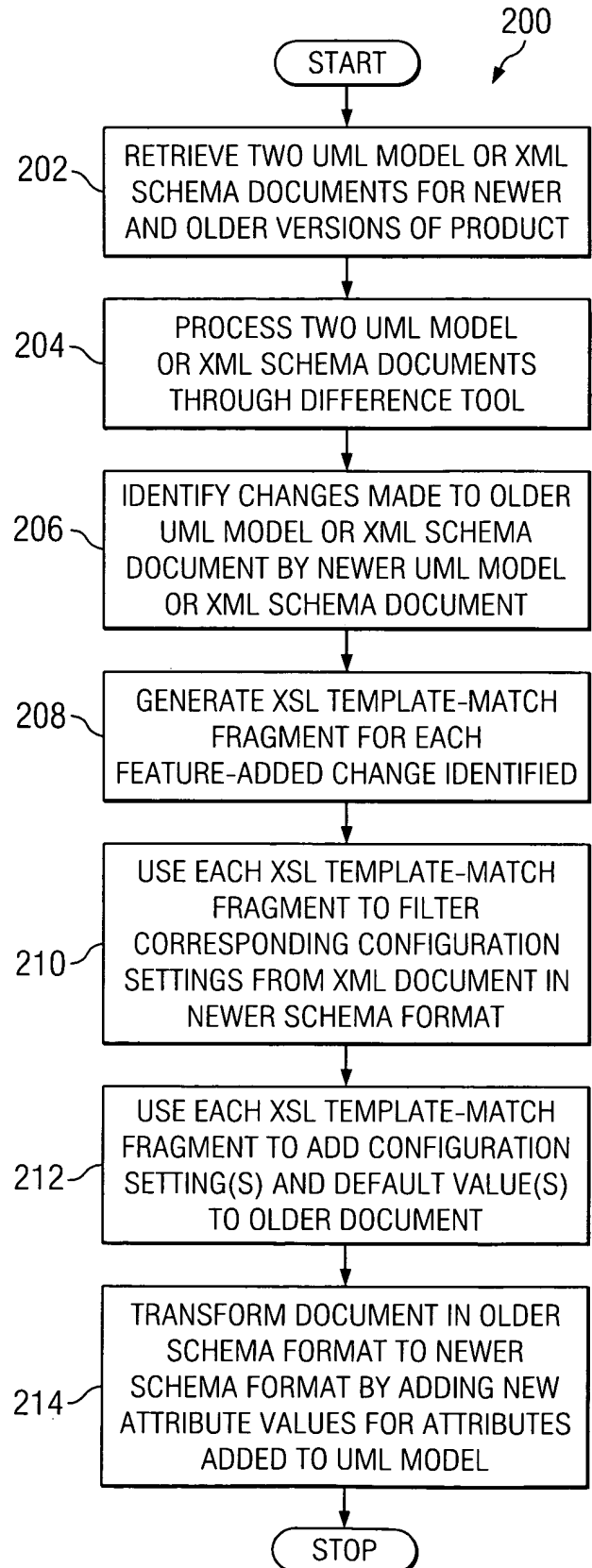
FIG. 3